UNITED STATES PATENT AND TRADEMARK OFFICE

THE COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

In re the patent application of:

Byoung Se Kwon

For:

NEW RECEPTOR AND RELATED PRODUCTS AND METHODS

Filed:

June 5, 1995

Application No.:

08/461,652

Art Unit:

1812

Examiner:

Curtis, Joseph

Attorney Docket No:

IND4-DI1

RECEIVED MAY 1 5 1996 CD 71 110 9800 INFORMATION DISCLOSURE STATEMENT

List of Sections Forming Part of This Information Disclosure Statement

The following sections are being submitted for this information Disclosure Statement

- 1. [X] Preliminary Statements
- 2. [] FORM PTO 1449 (Modified)
- 3. [X] Statement As To Information Material To Examination Not Found in Patents or Publications
- 4. [] Identification of Prior Application In Which Listed Information Was Already Cited and For Which No Copies Are Submitted Or Need Be Submitted.
- 5. [] Cumulative patents or Publications
- 6. [X] Copies of Listed Information Items Accompanying This Statement
- 7. [] Concise Explanation of Non-English Language Listed Information Items.
- 8. [] Translation(s) of Non-English Language Documents
- 9. [X] Identification of Person(s) Making This Information Disclosure Statement

CERTIFICATE OF CERTIFIED MAILING								
CERTIFIED MAIL NO:P3	82554567 DA	te: <u>5 2 96</u>						
			as Certified Mail with return receipt requested					
1	R 1.8 on the date indicated above	e and is addressed to	Commissioner of Patents and Trademarks,					
Washington, D.C. 20231,.	() index (N. Baroherma	05/13/96 08461652					
	Judy H. Bar		220.00 CK					

Section 1. Preliminary statements

Section 5. Cumulative Patents or Publications

Applicant submits herewith patents, publications or other information of which he is aware, which he believes may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR 1.56.

The filing of this information disclosure statement shall not be construed as a representation that a search has been made (37 CFR 1.56(g)), an admission that the information cited is, or is considered to be, material to patentability or that no other material information exists.

The filing of this information disclosure statement shall not be construed as an admission against interest in any manner. Notice of January 9, 1992, 1135 O.G. 13-25, at 25.

Section 3. Statement As To Information Material To Examination Not Found in Patents or Publications (Information not listed in PTO 1449)

The sequence from the Schwartz, H. et al., (1993) reference cited as reference DA in applicant's information disclosure statement was submitted to Gen Bank on April 23, 1993 and assigned accession number L 12964 as disclosed in the reference on page 296 in the figure legend for Figure 1. Attached to this statment is a copy of an e-mail message from John O'Neil of Genome Sequence DataBase, User Support Staff. As stated in his communication, this is a print-out of the the submission designated L 12964 which was included in the CD-ROM release of the database. This CD-ROM database is a listing of all of the sequences submissions such that this information was not accessible to the public until Schwarz published his paper. The listing does not include the designation 4-1BB, so one skilled in the art would not have been to identify the sequence as the human homologue of 4-1BB. It is not believed that this sequence submission consitutes a "publication" and therefore, should not be considered as a reference in evaluating the patentability of the claims in the present application.

Section 4. Identification of Prior Application in Which Listed Information Was Already Cited and For Which No Copies Are Submitted Or Need Be Submitted

[] is cumulative of the following patents or publication listed on Form PTO 1449 (modified): In accordance with 37 CFR 1.98(c) a copy of only _____ is being submitted with this information disclosure statement. Section 6. Copies of Listed Information Items Accompanying This Statement Legible copies of all items listed accompany this information statement. [] Exception(s) to above:

[] Items in prior application from which an earlier filing date is claimed for this application as identified in Section 4.

[] Cumulative patents or publications identified in Section 5. Section 7. Concise Explanation of Non-English Language Listed Information Items Section 8. Translation(s) of Non-English Language Documents [] Submitted herewith is an English translation of the following foreign language patents, publications or information or of those portions of those patents, publications or information considered to be material: [] No English language translations of the foreign language patents, publications or information or parts thereof are readily available, except for those listed above. [] The following foreign language documents submitted are believed to be the equivalent or substantial equivalent of the English language documents identified below, which are also submitted herewith. Section 9. Identification of Person(s) Making This INFORMATION DISCLOSURE STATEMENT The person making this statement is (a) [] the inventor(s) who signs below SIGNATURE OF INVENTOR (b) [X] the attorney who signs below on the basis of: [] the information supplied by the inventor(s) [] an individual associated with the filing and prosecution of this application (37 CFR 1.56(c)). [X] the information in the attorney's file

Christopher A. Michaels, Reg. No. 34,390

306 East State Street - Suite 220

Ithaca, New York 14850

Voice: (607) 273-1711 Fax: (607) 273-2609

Date: Fri, 27 Oct 1995 10:41:27 +0700 From: jmo@ncgr.org (John Markos O'Neill)

To: bbm@lightlink.com Subject: L12964 flatfile X-Sun-Charset: US-ASCII

Dear Mr. Michaels:

Here is a copy of the flatfile of L12964 from the June, 1993 GenBank CD-ROM release. The date at the top of the file is the release date from that version of the entry.

I hope that this is helpful to you.

Sincerely yours,

John O'Neill

Genome Sequence DataBase (GSDB)

505-982-7840

User Support Staff

FAX: 505-982-7690

GSDB Submissions GSDB Updates World Wide Web Site datasubs@gsdb.ncgr.org update@gsdb.ncgr.org http://www.ncgr.org

---- Begin Included Message -----

LOCUS

HUMILAX

1419 bp ss-mRNA

PRI

30-APR-1993

DEFINITION

Human activation dependent T cell mRNA, complete cds.

ACCESSION

L12964

KEYWORDS

cell surface receptor; nerve growth factor receptor;

tumor necrosis factor receptor.

SOURCE

Homo sapiens cDNA to mRNA.

ORGANISM

Homo sapiens

Eukaryota; Animalia; Chordata; Vertebrata; Mammalia;

Theria;

Eutheria; Primates; Haplorhini; Catarrhini; Hominidae.

REFERENCE

(bases 1 to 1419)

AUTHORS

Schwarz, H., Tuckwell, J.E. and Lotz, M.

TITLE

Nucleotide sequence of ILA, a cDNA encoding a new member

of the

human nerve growth factor/tumor necrosis factor receptor

family

JOURNAL STANDARD Unpublished (1993)

full automatic

FEATURES

Location/Qualifiers

5'UTR

1..139

3'UTR

908..1419

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John Markos O'Neill, 10:41 AM 10/27/9, L12964 flatfile
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John Markos O'Neill, 10:41 AM 10/27/9, L12964 flatfile 841 tactcaagag gaagatggct gtagctgccg atttccagaa gaagaagaag gaggatgtga 901 actgtgaaat ggaagtcaat agggctgttg ggactttctt gaaaagaagc aaggaaatat 961 gagtcatccg ctatcacagc tttcaaaagc aagaacacca tcctacataa tacccaggat 1021 toccocaaca cacgttottt totaaatgoo aatgagttgg cotttaaaaa tgcaccactt 1081 ttttttttt tttggacagg gtctcactct gtcacccagg ctggagtgca gtggcaccac 1141 catggctctc tgcagccttg acctctggga gctcaagtga tcctcctgcc tcaqtctcct 1201 gagtagctgg aactacaagg aagggccacc acacctgact aacttttttg ttttttgttg 1261 gtaaagatgg catttcgcca tgttgtacag gctggtctca aactcctagg

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taatgcacca

1381 cttttaacag aacagacaga tgaggacaga gctggtgat

---- End Included Message ----

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Byoung Se Kwon

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NEW RECEPTOR AND RELATED PRODUCTS AND METHODS

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June 5, 1995

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Art Unit:

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Examiner:

Curtis, Joseph

Attorney Docket No:

IND4-DI1

Transmitted herewith is:

[X] Information disclosure statement

Fees Calculated as Follows:

	No. Claims	Less	Claims	=	No. Extra	Times Small Entity Fee	= .	Fee
Basic Fee				=		\$375	=	
Total Claims		-	20	=		\$ 11	=	
Independent Claims		-	3	=		\$ 39	#	
Mult. Dependent Claims				-		\$125	=	
Assignment Recording Fee						\$ 40		
Extension of time to reply: [] One Month [] Two Months [] Three Months						\$ 55 \$190 \$450		· · · · · · · · · · · · · · · · · · ·
Other: IDS submission								\$ 220
Total Fees:								\$ 220

[X] A check is attached hereto for the above fees in the amount of \$220.00 to cover the submission of the attached Information Disclosure Statement.

[X] The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 02-0910. A duplicate of this transmittal is attached.

Date:

Christopher A. Michaels, Reg. No. 34,390

BARNARD, BROWN & MICHAELS 306 E. State Street, Suite 220

Ithaca, New York 14850

Voice: (607) 273-1711

Fax: (607) 273-2609

CERTIFICATE OF CERTIFIED MAILING									
CERTIFIED MAIL NO: P382554567 DATE: 57296									
I hereby certify that this paper is being deposited with the U.S. Postal Service as Certified Mail with return receipt									
requested to Addressee service under 37 CFR 1.8 on the date indicated above and is addressed to Commissioner of Patents and	i								
Trademarks, Washington, D.C. 20231,.									
//Judy H. Barron									